

WEST**End of Result Set**Generate Collection

L1: Entry 1 of 1

File: USPT

Jul 24, 2001

US-PAT-NO: 6266250

DOCUMENT-IDENTIFIER: US 6266250 B1

TITLE: Electronics component mounting system

DATE-ISSUED: July 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Foye; Richard T.	Fullerton	CA		

US-CL-CURRENT: 361/760; 211/41.17, 211/88.01, 211/90.02, 211/94.02, 248/220.21,
248/220.22, 248/220.31, 248/222.41, 248/224.7, 248/225.11, 248/231.9

CLAIMS:

What is claimed is:

1. Apparatus for mounting an electronic component to a wall of a structure such as a home or an office, comprising:
a support panel, the support panel including a grid of holes therein, the grid being formed to have a pair of columns of the holes, the columns being spaced apart by a selected distance and the holes in each of the columns being spaced apart by a predetermined interval;
means for mounting the support panel to the wall, the support panel being formed such that the grid is spaced apart from the wall when the support panel is mounted thereto;
a module formed generally as a plate such that an electronic component may be mounted thereto, the module including:
a pair of hooks extending from a first edge thereof, the hooks being spaced apart by the column spacing such that the hooks may be arranged to extend through corresponding first and second holes in the grid;
a locking pin extending from the module such that the locking pin extends into a corresponding third hole in the grid to restrain the module against movement parallel to the support panel; and
the module further including a hole that is aligned with a fourth hole in the grid when the hooks and locking pin are in their respective holes; and
a snap latch configured for insertion into the hole and through the fourth hole in the grid, the snap latch being arranged to restrain the module against movement away from the support panel.
2. The apparatus of claim 1 further comprising:
a second pair of columns of holes formed in the support panel, the second pair of columns being substantially identical to the first pair of columns and arranged to be parallel thereto; and
a pair of flanges extending from opposite sides of the support panel, the flanges being configured to receive fasteners for mounting the support plate to a pair of wall studs.
3. The apparatus of claim 1 wherein the pair of hooks extend from an upper edge of the module so that the module hangs from the pair of hooks when they are inserted into the corresponding first and second holes.
4. The apparatus of claim 1 wherein the holes are substantially identical.
5. The apparatus of claim 4 wherein each of the holes in the grid is formed to be round with vertically aligned slots being formed at upper and lower portions.
6. The apparatus of claim 5 wherein the slots are formed to provide generally rectangular portions at the upper and lower edges of the holes.
7. The apparatus of claim 1 wherein the pair of hooks and the locking pins extend

7. The apparatus of claim 1 wherein the pair of hooks and the locking pins extend directly from the plate.